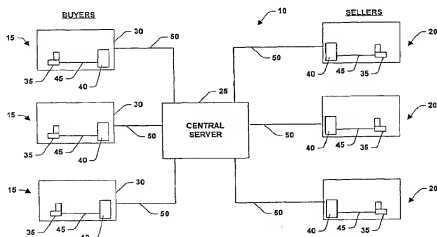




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : G06F		A2	(11) International Publication Number: WO 00/70424
			(43) International Publication Date: 23 November 2000 (23.11.00)
(21) International Application Number: PCT/US00/11989		(72) Inventor; and	
(22) International Filing Date: 3 May 2000 (03.05.00)		(75) Inventor/Applicant (for US only): MESAROS, Gregory, J. [US/US]; 26879 Prinrose Lane, Westlake, OH 44145 (US).	
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60/133,769	12 May 1999 (12.05.99)	US	(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
60/133,972	26 May 1999 (26.05.99)	US	
09/324,391	3 June 1999 (03.06.99)	US	
60/137,583	4 June 1999 (04.06.99)	US	
60/138,209	9 June 1999 (09.06.99)	US	
60/139,338	16 June 1999 (16.06.99)	US	
60/139,519	16 June 1999 (16.06.99)	US	
60/139,518	16 June 1999 (16.06.99)	US	
09/342,345	29 June 1999 (29.06.99)	US	
60/142,371	6 July 1999 (06.07.99)	US	
50/160,510	20 October 1999 (20.10.99)	US	
09/426,063	22 October 1999 (22.10.99)	US	
50/162,182	28 October 1999 (28.10.99)	US	
50/173,409	28 December 1999 (28.12.99)	US	
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(54) Title: MULTIPLE CRITERIA BUYING AND SELLING MODEL, AND SYSTEM FOR MANAGING OPEN OFFER SHEETS



(57) Abstract

A multiple criteria buying and selling system and method is provided. A seller initially establishes a deal structure for a product, which provides seller defined selling criteria information relating to the purchasing of the product, such as volume per unit price, quality, delivery time and warranty information. A buyer will be able to review a list of deals if the seller's selling criteria matches a buyer defined buying criteria. The deal structure is preferably set up so as to provide buyers with both price and non-price criteria information that the buyer's would consider important in a purchase of the type of product being offered by the seller. The deal structure is electronically made available to potential buyers of the product. For example, the deal structure may be displayed on an Internet site.

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5 **Title: MULTIPLE CRITERIA BUYING AND SELLING MODEL, AND
 SYSTEM FOR MANAGING OPEN OFFER SHEETS**

Technical Field

10 The present invention relates to an e-commerce multiple criteria buying and
selling methodology and more particularly to a method and apparatus of using the e-
commerce multiple criteria buying and selling methodology to conduct business
electronically.

Background of the Invention

15 The buying and selling of products and services has resulted in a vast array of
buying schemes which are used to vary the price at which such products are sold.

 One of the most common buying schemes which business encounter everyday
is known as volume buying. According to this buying scheme, sellers set a fixed unit
price for their products based on the volume of units that a buyer is willing to
20 purchase. Buyers desiring to purchase products from the seller are each required to
pay the same fixed price depending on the volume of units the buyer is purchasing. If
a seller finds that the demand for a given product is greater or less than expected, the
seller may later adjust the fixed price per unit of the product to account for such
findings. Although the fixed price per unit system provides a simple way for a seller
25 to conduct business with multiple buyers, one drawback of this buying scheme is that
it fails to provide buyers with a choice between a variety of different buying criteria
that may be just as important or more important to the buyer than price.

 For example, a buyer that is in need of goods, such as raw materials to make
products for an expedited order may be willing to pay a higher price for a faster
30 delivery time. Another buyer may be concerned with the quality of the goods they are
purchasing, such that the buyer would pay a higher price for goods having a minimum
number of defects. Yet another buyer may be concerned with the warranty time
allotted for the goods they are purchasing, and may want the warranty of the goods
that they are purchasing to match or exceed the warranty the buyers are offering their
35 own customers.

Yet another buying scheme which has been advanced in recent years is buyer-driven bidding. According to this buying scheme, a single buyer desiring to obtain a product communicates a price at which the buyer is willing to purchase the product to multiple sellers. Each of the sellers is provided an opportunity to review the buyers price. A sale is complete when one of the sellers agrees to sell the product to the buyer at the price suggested by the buyer. A buyer-driven bidding scheme is described in U.S. Pat. No. 5,794,207 assigned to Walker Asset Management Limited Partnership of Stamford, Conn. Another buyer-driven bidding scheme is described in U.S. Pat. No. 5,897,620 assigned to priceline.com Inc of Stamford, Conn. While the buyer-driven bidding scheme provides advantages for certain types of transactions when, for example, sellers may be willing to sell products at lower than normal prices, the uncertainties involved with whether a buyer's offer will be accepted is often problematic for high volume commercial transactions in which the reliability that a transaction will be complete is of paramount importance. Another problem with the present buying schemes is that the buyer's have no control in determining the criteria of the product or services that they may receive, while the seller has no control of the type of purchase that the buyer's request.

While the buying schemes described above have various advantages and disadvantages in different situations, a commonality among all of the buying schemes is that each buyer is not given the opportunity to choose amongst different buying criteria, which could be more important to the buyer than the price of the goods and/or services. Furthermore, each seller is not given a chance to offer their goods and/or services based on different selling criteria. In many instances sellers are not even aware of what buyer's consider important buying criteria. Additionally, sellers are sometimes not aware of what other selling criteria that other seller's might offer buyers.

Accordingly, there is a strong need in the art for a multiple criteria buying and selling scheme which provides both buyers and sellers more control in a commercial purchasing transaction, and overcomes the above mentioned drawbacks and others.

Summary of the Invention

According to one aspect of the present invention, a multiple criteria buying and selling methodology is provided. The multiple criteria buying and methodology is structured to provide buyers and sellers with a variety of information relating to criteria in the purchasing of products to complete a business transaction. By providing the buyers and sellers with a variety of information, the buyers are able to make an informed decision in the buying process relating to each buyer's particular needs, and the seller's are able to control the type of purchases for their goods and services. To facilitate buying and selling products using the multiple criteria buying and selling methodology, an electronic forum is provided whereby buyers and sellers are able to conveniently exchange information and order products.

In the multiple criteria buying and selling methodology, a seller initially establishes a deal structure for a product, which provides selling criteria information relating to the purchasing of the product, such as volume per unit price, quality, delivery time and warranty information that a buyer will be able to review if the selling criteria matches a buyer inputted buying criteria. The deal structure is preferably set up so as to provide buyers with both price and non-price criteria information that the buyer's would consider important in a purchase of the type of product being offered by the seller. The deal structure is electronically made available to potential buyers of the product. For example, the deal structure may be displayed on an Internet site.

Accordingly, the multiple criteria buying and selling methodology provides more control for both buyers and sellers in the purchasing process. Buyer's define the buying criteria which they feel is important in purchasing a particular good or service. Seller's define the selling criteria which the seller feels is important to both the buyer and the seller. The buyer is provided with a list of deals in which the buyer's buying criteria falls within the seller's selling criteria. Furthermore, the multiple criteria buying methodology encourages the completion of deals. The multiple criteria buying and selling methodology allows a buyer to complete a deal in an expedited manner.

The buyer can control their criteria and the seller can control their criteria allowing a more efficient manner of conducting business.

Thus, according to one aspect of the present invention, a business transaction methodology is provided. The methodology includes the steps of offering a plurality
5 of deals for at least one of a product and service offered by at least one seller inputting a plurality of buying criteria by a buyer for the at least one of a product and service, and outputting a list of deals from amongst the plurality of deals that match the buying criteria of the buyer.

In accordance with another aspect of the present invention an Internet business
10 transaction system is provided. The Internet business transaction system, includes a computer adapted to be employed by a facilitator for hosting a commercial transaction over the Internet, the computer providing access to at least one buyer and at least one seller to carry out the commercial transaction, wherein at least one buyer makes a purchase from the at least one seller when a plurality of buying criteria defined by the
15 buyer matches a plurality of selling criteria defined by the seller.

In accordance with yet another aspect of the present invention, a method of conducting a business transaction is provided. The method includes the steps of electronically offering a plurality of deals on at least one of a product and service for sale, each of said plurality of deals being based on different offering criteria than each
20 other of said plurality of deals, electronically searching the deals on the product for sale based on a plurality of ordering criteria, outputting a list of deals of the plurality of deals which offering criteria matches the ordering criteria and selecting one of the deals of the list of deals which offering criteria matches the ordering criteria.

In accordance with another aspect of the present invention, an electronic signal
25 is provided that is adapted to be transmitted between at least two computers. The electronic signal includes an algorithm for matching a buyer with at least one deal offered by at least one seller, the algorithm matches the buyer with the at least one deal based on a plurality of buying criteria defined by the buyer which matches a plurality of selling criteria defined by the at least one seller.

In accordance with yet another aspect of the present invention an Internet business transaction system is provided. The internet business transaction system includes means for hosting a commercial transaction over the Internet, the means for hosting provides access to at least one buyer and at least one seller to carry out the commercial transaction, wherein the at least one buyer makes a purchase from the at least one seller when a plurality of ordering criteria, fall within the outer limits of a plurality of offering criteria, each ordering criteria being based on a buyer defined buying criteria, and each offering criteria being defined by the seller.

In accordance with yet another aspect of the present invention an Internet business transaction system is provided. The Internet business transaction system includes a first computer adapted to be employed by a facilitator for hosting a commercial transaction over the Internet, a second computer adapted to be used by a buyer to link to the first computer to participate in the commercial transaction, a third computer adapted to be used by a seller to link to the first computer to participate in the commercial transaction, wherein the buyer makes a purchase from the seller when a plurality of buyer defined buying criteria matches a plurality of seller defined selling criteria.

In accordance with yet another aspect of the present invention a server is provided. The server includes a processor, a memory coupled to the processor, and a network interface coupled to the processor for transmitting and receiving data with at least one remote computer system, wherein a plurality of deals for a product offered for sale electronically is stored in the memory, each of the plurality of deals having different seller defined selling criteria, and wherein the server is configured to receive orders for the product from a plurality of different buyers via the at least one remote computer system, by providing the plurality of different buyers with at least one deal of the plurality of deals matching a plurality of buyer defined buying criteria.

In accordance with still yet another aspect of the present invention, a system for conducting business electronically is provided. The system includes a central server, at least one computer system coupled to the server via a network, wherein a plurality of deals for a product offered for sale electronically is stored in the central

server, each of the plurality of deals having different seller defined selling criteria, and wherein the server is configured to receive orders for the product from a plurality of different buyers via the at least one remote computer system, by providing the plurality of buyers with at least one deal of the plurality of deals matching a plurality of buyers defined buying criteria.

Another aspect of the present invention relates to a business transaction methodology, including the steps of: offering a plurality of deals for at least one of a product and service offered by at least one buyer; inputting a plurality of selling criteria by a seller for the at least one of a product and service; and outputting a list of deals from amongst the plurality of deals that match the selling criteria of the seller

Yet another aspect of the invention relates to a system for providing an electronic-based forum for conducting business transactions. The system includes means for creating a virtual deal room accessible by at least one seller and a plurality of buyers, the virtual deal room being dedicated to carrying out a business transaction for a specific product or service; means for aggregating purchase orders from at least two of the buyers of the plurality of buyers; means for presenting the aggregated purchase orders to the at least one seller; and means for closing a transaction between the at least one seller and the at least two buyers regarding the aggregated purchase orders.

Another aspect of the present invention relates to an electronic-based forum for conducting business transactions, comprising: a first system for creating a virtual deal room accessible by at least two sellers and at least two buyers, the virtual deal room being dedicated to carrying out a business transaction for a specific product or service; a second system for aggregating at least one of purchase orders or offers for sale of the specific product or service from at least one group of the sellers and buyers; a third system for presenting the at least one of the aggregated purchase orders or aggregated offers for sale to at least one seller or buyer, respectively; and a fourth system for closing a transaction for the specific product or service.

Still another aspect of the present invention relates to an electronic-based forum for conducting business transactions, comprising: a first system for creating a

virtual deal room accessible by one buyer and a plurality of sellers of a specific product or service; a second system for aggregating offers for sale of the specific product or service from at least two of the sellers; a third system for presenting the aggregated offers for sale to the buyer; and a fourth system for closing a transaction for the specific product or service.

To the accomplishment of the foregoing and related ends, the invention then, comprises the features hereinafter fully described and particularly pointed out in the claims. The following description and the annexed drawings set forth in detail certain illustrative aspects of the invention. These aspects are indicative, however, of but a few of the various ways in which the principles of the invention may be employed and the present invention is intended to include all such aspects and their equivalents. Other objects, advantages and novel features of the invention will become apparent from the following detailed description of the invention when considered in conjunction with the drawings.

Brief Description of the Drawings

Fig. 1 illustrates a diagrammatic view of a system for electronically conducting business in accordance with one aspect of the present invention;

Fig. 2a illustrates a block diagram of a central server in accordance with one aspect of the present invention;

Fig. 2b is a schematic illustration of a client computer operatively coupled to a server computer system in accordance with one aspect of the present invention;

Fig. 3 illustrates a web page providing options to buyers and sellers desiring to conduct business electronically in accordance with one aspect of the present invention;

Fig. 4a illustrates a buyer's buying criteria input screen in accordance with one aspect of the present invention;

Fig. 4b illustrates a buyer's product ordering criteria input screen in accordance with one aspect of the present invention;

Fig. 4c illustrates a list of seller's deals matching the buyer's product ordering criteria in accordance with one aspect of the present invention;

Fig. 5 illustrates a flow chart for a buyer desiring to conduct business electronically in accordance with one aspect of the present invention;

5 Fig. 6 illustrates an on-line registration form for a buyer in accordance with one aspect of the present invention;

Fig. 7 illustrates a buyer database stored in a central server in accordance with one aspect of the present invention;

10 Fig. 8a illustrates a web page for a buyer to create or modify a deal in accordance with one aspect of the present invention;

Fig. 8b illustrates a seller's buying and selling criteria input screen in accordance with one aspect of the present invention;

Fig. 8c illustrates a seller's product ordering criteria input screen in accordance with one aspect of the present invention;

15 Fig. 8d illustrates an input screen for adding buying and selling criteria to the deal in accordance with one aspect of the present invention;

Fig. 9 illustrates a flow chart for a seller desiring to conduct business electronically in accordance with one aspect of the present invention;

20 Fig. 10 illustrates an on-line registration form for a seller in accordance with one aspect of the present invention;

Fig. 11 illustrates a seller database stored in the central server in accordance with one aspect of the present invention;

Fig. 12 is a schematic illustration of an ordering process in connection with the above-identified invention.

25 Fig. 13 is a schematic illustration of an electronic forum for conducting a seller sponsored business transaction;

Fig. 14 is a schematic illustration of an electronic forum for conducting a buyer sponsored business transaction; and

30 Fig. 15 is a schematic illustration of an electronic forum for conducting a buyer and seller co-sponsored business transaction.

Detailed Description of the Invention

The present invention will now be described with respect to the accompanying drawings in which like numbered elements represent like parts.

Referring initially to Fig. 1, a system 10 is shown in which multiple buyers 15 and sellers 20 are electronically linked via a central server 25. As discussed in more detail below, the central server 25 is configured to provide the buyers 15 and sellers 20 with a convenient forum in which to buy and sell goods in accordance with a multiple criteria buying and selling methodology described herein. The forum may, for example, be a preestablished Internet web page where sellers 20 are able to post product information and the buyers 15 are able to order products. The multiple criteria buying scheme calls for a seller 20 to post a number of deals for a given product, which vary according to different offering criteria defining the limits of a number of selling criteria, such as for example, price, volume, quality and delivery time. Each buyer 15 is able to enter a range of criteria that the buyer would require for a deal to be made. A list of sellers and prospective deals offered by these sellers is generated for the buyers to review. Each buyer 15 can then review the list of deals and choose a deal based on the buyers particular needs. In this manner, each of the buyers 15 can be certain that particular thresholds have been met and also be guaranteed of completing a deal.

It is to be appreciated that the present invention has wide applicability to the purchasing and/or selling of a variety of different products and/or services. For example, the present invention may be applied within the context of purchasing and/or selling airline tickets wherein buyers criteria may include, for example: (1) reputation of airline; (2) reliability; (3) timeliness; (4) price; (5) number of alternative flights; (6) comfort; (7) quality of service; and (8) quality of foods. The sellers' criteria may include, for example: (1) volume of tickets; (2) buyer's versatility in time schedule; (3) buyer's method of payment, *etc.*

The present invention may also be applied in the context of purchasing and/or selling an automobile wherein buyer's criteria may include, for example: (1) reputation of automobile manufacturer; (2) reputation of dealer; (3) price of

automobile; (4) delivery options; (5) automobile availability; (6) safety; and (7) financing terms; *etc.* While, the seller's criteria may include, for example: (1) buyer's creditworthiness; (2) desired finance terms; (3) delivery requests of buyer; (4) delivery dates; *etc.*

Thus, the present invention intends to allow buyers and/or sellers of products and/or services to pre-select a plurality of criteria prior to negotiating a deal for the product and/or service. Of course the preselected criteria will vary depending on the particular product and/or service. The scope of the present invention as defined in the hereto appended claims intends to include any product and/or service (and plurality of pre-selected criteria associated therewith) suitable for deal-making in accordance with the present invention.

Each of the buyers 15 and sellers 20 may access the central server 25 in any of a variety of ways. For example, in the present aspect, each buyer 15 and seller 20 is shown to be part of separate establishments 30 which include one or more respective computer systems 35 and local servers 40. The computer systems 35 may, for example, be a desktop or laptop computer with a local area network (LAN) interface for communicating over a network backbone 45 to the local server 40. The local servers 40, in turn, interface with the central server 25 via a network cable 50 or the like. It will be appreciated that while the present aspect depicts the computer system 35 communicating with the central server 25 via hardwired network connections, in an alternative aspect the computer system 35 may interface with the central server 25 using a modem, wireless local area and/or wide area networks, etc. Further, it will be appreciated, that while the buyers 15 and sellers 20 are shown to communicate with the central server 25 via different computer systems 35, it will be appreciated that the buyers 15 and/or sellers 20 may access the central server 25 from the same computer system 25.

Turning now to Fig. 2a, a block diagram of the hardware components of the central server 25 is shown. In particular, the central server 25 includes a central processor 100 for performing the various functions described herein. A memory 105 is coupled to the processor 100 and stores operating code and other data associated

with the operations of the central server 25. A user interface 110 is also coupled to the processor 100 and provides an interface through which the central server 25 may be directly programmed or accessed. The user interface 110 may, for example, be an alphanumeric keyboard and mouse. A network interface 115 coupled to the processor
5 100 provides multiple connections for transceiving information with buyers 15 and sellers 20 over the network cables 50.

As previously stated, the present invention could take advantage of the wide availability and versatility of the Internet. Referring to Fig. 2b, a schematic block diagram that depicts an environment of interest to one aspect of the present invention.
10 The client computer system 35 is shown connected to the central server computer system 25 that is part of the Internet 60. The client computer system 35 and server 25 are connected *via* an Internet connection 55 using a public switched phone network, for example, such as those provided by a local or regional telephone operating company. The Internet connection 55 may also be provided by dedicated data lines,
15 Personal Communication Systems ("PCS"), microwave, or satellite networks, for example, or any suitable means. It is to be understood that the terms client and server are to be construed in the broadest sense, and that all such constructions of the terms are intended to fall within the scope of the hereto appended claims.

Turning now to Fig. 3, an exemplary Internet web page 120 which provides
20 buyers 15 and sellers 20 with access to a forum for conducting business using the multiple criteria buying methodology described in detail below, is shown. The web page 120 is shown to include hyperlinks for handling both registered and un-registered buyers and sellers of products. For example, as shown in Fig. 3, registered buyers may select a hyperlink to a registered buyer login screen via hyperlink 125 while non-
25 registered buyers may select a hyperlink to a non-registered buyer registration screen via hyperlink 135. Similarly, registered sellers may select a hyperlink to a registered seller login screen via hyperlink 130, while non-registered sellers may select a hyperlink to a non-registered seller registration screen via hyperlink 140. While the present aspect illustrates separate hyperlinks for buyers and sellers, it will be

appreciated that such hyperlinks could alternatively be combined and the status of buyer or seller could be determined during a later stage in the login procedure.

Turning now to Fig. 4a, in accordance with one aspect of the present invention, registered buyers 15 enter several product buying criteria into a "Buyer's Buying Criteria" input page 150. The buyer 15 selects a product or service from a list in a scroll down menu 152. It should be appreciated that the list on the scroll down menu 152 could include any number of related or non-related goods and services only limited by the size of a database used in accordance with the present invention. Upon selecting a product or service (e.g., glass) from the scroll down menu 152, a list of seller criteria automatically appears in a window 160. The list of seller criteria appearing in the window 160 is the minimum inputs to be provided by the buyer to obtain a deal listing. These minimum inputs are decided by the class of sellers selling the individual product or service and/or decided by the system administrator of the system. The buyer 15 can then begin adding buyer buying criteria by selecting the criteria from a scroll down list 154, and clicking on an "Add to List" button 156 with a computer mouse (not shown), for example. If the buyer 15 desires to remove a buyer buying criteria, it is only necessary to highlight the criteria in the window 160 and click on a "Remove from List" button 158. Once the list is completed, the buyer 15 may add additional criteria thought to be important to the buyer not in the selection of choices. These additional criteria will not be used by the buyer in this particular deal search, but will be provided to the sellers, so that they can be alerted of these additional criteria important to the buyer. The seller may opt to add to the selectable choices these additional buyer's buying criteria at a later time. Once the complete custom buyer buying criteria list is completed, the buyer can click on the "Submit Criteria" button 162 for submission of the buyer's buying criteria to build a "Buyer's Product Ordering Criteria" input screen 165, as illustrated in Fig. 4b.

Turning now to Fig. 4b, in accordance with one aspect of the present invention, registered buyers 15 enter several product ordering criteria that would be acceptable to the buyer 15 on the "Buyer's Product Ordering Criteria" input screen 165. In this particular example, the buyer 15 is looking to purchase raw glass by the

pound, however, many different types of products and services could be purchased/sold using the present invention. The buyer's ordering criteria of this example includes: price range 166 in dollars per pound; volume range 168 in number of pounds; delivery range 170 in days; the acceptable % of defects 172 in percent; and the minimum required warranty 174 in months. The buyer 15 can then list the names of the sellers 20 in the window 176 that the buyer 15 has bought products from previously, so that the buyer 15 can be entitled to any good customer or multi-purchase discounts offered by the sellers 20. Once the buying ordering criteria is entered, the buyer can search for deals by clicking on the "Search for Deal" button 178 on the computer screen using the computer's mouse. The present invention then utilizes a search engine to search through a database of deals offered by various sellers of the product, and provides an output of those deals to the buyer that matches the buyer's ordering criteria by outputting a list of these deals on a "Deal Matching Ordering Criteria" output page 180, as shown in Fig. 4c.

Turning now to Fig. 4c. in accordance with one aspect of the present invention, registered sellers 20 set up a variety of deals 182 by which registered buyers 15 are able to order products. As will be discussed in more detail below, the deals 182 of the present aspect are set up to display the following information which is input from the seller 20 and/or calculated by the processor 100 of the central processor 25 according to the deal 182, which includes: a seller name 184; a deal number 186; a volume ordering range required 188 to obtain a current price/pound level 190; an expected delivery time 192; a warranty period 196; and a percentage of defects 198 of the product the buyer 15 can expect to receive in a given order. Based on such information, buyers 15 can make an informed decision as to whether they desire to commit to an order on a particular deal based on the criteria that is important to that particular buyer. If a buyer 15 desires to place an order, the buyer 15 inputs a seller 183, a deal number 185 and a volume order 187. The buyer 15 then clicks on the "Submit Deal" button 189 with a mouse pointer, for example, on the computer display and the deal is finalized.

Turning now to Fig. 5, the general steps taken by a buyer 15 entering the web page 150 is shown. More particularly, in step 200 it is initially determined whether a buyer 15 is registered or not. If the buyer 15 is not registered, the buyer 15 selects hyperlink 135 (Fig. 3) and proceeds to step 205. In step 205 the processor 100 of the central server 25 requests that the buyer 15 fill out a registration form. For example, the buyer 15 is requested to fill out a registration form 208 such as that shown in Fig. 6. In the present example, the registration form 208 requests that the buyer 15 enter the following information: buyer name; address; primary contact person; phone; fax; e-mail; short description of company; preferred login user name; and preferred password. With respect to the user name and password, the processor 100 is configured to determine whether the selected user name and password combination are available and, if not, to prompt the buyer 15 to enter a new user name and password until an available combination is selected.

In step 210 (Fig. 5), the buyer is requested to fill out a credit card application so that purchases made on the web site may be immediately approved. The credit card registration and approval process may be accomplished via a hyperlink to one of various electronic credit card approval agencies which check the buyer's credit rating and set up a merchant account with a line of credit. For example, an electronic credit card approval agency which may be used in conjunction with the present invention can be found on the Internet at <http://www.interent-ecommerce.com>. Next, in step 215, the processor 100 determines if the credit card application has been approved by the electronic credit card approval agency. If the credit card application has not been approved, the processor 100 proceeds to step 220 where a message is sent back to the buyer 15 indicating regret that they have not been approved for a line of credit and therefore have not successfully completed the registration process. In step 220, a customer service telephone number also is provided to the buyer 15 in case the buyer has questions and/or desires to pursue registration further.

If in step 215, the processor 100 is informed that the buyer 15 has been provided a line of credit and a credit card number has been issued, the processor 100 proceeds to step 225. In step 225 the buyer information from the registration form

208 and the newly issued credit card number are stored in a buyer database 270 (Fig. 7) in the memory 105 of the processor 25 (Fig. 2a). Next, in step 230, the processor 100 is configured to provide the buyer 15 with the newly issued credit card number so that the buyer 15 is able to purchase products and/or services. Furthermore, the
5 processor 100 is configured to provide a report to the system administrator who then mails a confirmation copy of the buyer's information stored in the buyer's database to the buyer 15. This completes the buyer's registration process.

Continuing to refer to Fig. 5, if in step 200, a buyer has already registered, the buyer 15 may login as a registered user by selecting the registered user hyperlink 125
10 (Fig. 3). Once selected, the processor 100, in step 240 prompts the buyer 15 to enter a user ID and password. Upon entry of such information, the processor 100 in step 240 verifies the user ID and password with those stored in the buyer database 270 (Fig. 7). If the user ID and password entered by the buyer 15 does not match any entry in the buyer database 270, the processor 100 in step 240 returns to step 235 for re-entry of
15 such information. If, however, in step 240, a valid user ID and password are entered, the processor 100 proceeds to step 245.

In step 245, the processor 100 provides the buyer 15 with a buyer's buying criteria input screen where the buyer 15 is able to enter a variety of buying criteria that is important to that particular buyer 15. The buyer 15 selects a plurality of buying
20 criteria and submits the criteria, so that the system can build an input ordering criteria form. In step 250, the buyer 15 enters the range of ordering criteria that is acceptable to the buyer in the input ordering criteria form, and then submits this criteria causing the system search engine to match the ordering criteria with a list of seller deals in a seller deal database. The search engine then lists the seller deals matching the buyer's
25 buying and ordering criteria. As discussed above, the deals 182 provided to the buyer 15 provide the buyer 15 with information regarding the sale of a particular product such as, for example, the volume range to get a particular price per pound, the delivery time, the warranty period and the percentage of defects in each order that a buyer can expect. In order to allow a buyer to quickly find deals 182 of interest, the processor

100 in step 245 provides the buyer 15 with the input "Buyer's Buying Criteria" input screen 150, so that active deals 182 of interest may be found.

Once a search is completed, the buyer 15 in step 250 is able to select a desired deal 182 from the results obtained. For example, the buyer 15 may choose a desired deal because it has a faster delivery time than the other deals. The buyer 15 may choose a deal because it has a low percentage of defects in the goods, or has a longer warranty than other goods. Regardless of the deal, the buyer 15 may choose, the buyer 15 can make an informed decision based on a variety of buying criteria. If the buyer 15 is unsatisfied with the search results or simply desires to re-perform the search, the buyer 15 at any time is able to return back to a previous screen selecting the "back" function available using an Internet browser such as, for example, Microsoft Internet Explorer, Netscape, etc. Additionally, a hyperlink to various screens, such as the search screen, preferably is provided on each web page.

Upon selecting a deal 182, the processor 100 in step 255 displays a page of standard terms and conditions which the buyer 15 must agree to prior to completing the deal. The terms and conditions relate to the terms governing the sale of the product or service according to which both the buyer and seller are willing to conduct business. If the terms and conditions are not accepted, the processor 100 returns the buyer 15 to step 245, so that another deal 182 may be selected and/or another search may be performed. If, however, in step 260 the terms and conditions are accepted, the processor 100 proceeds to allow the buyer 15 to complete the deal in step 265.

Turning now to Fig. 8a, in accordance with one aspect of the present invention, registered sellers 20 enter into a "Create or Modify Deal" screen 275. The seller 20 can choose a product or service from the product/service scroll down menu 276 and choose to either click on an "Open New Deal" button 278, a "Modify Existing Deal" button 280 or a "Review Buyer Inputted Criteria" button 282. If the buyer selects the "Review Buyer Inputted Criteria" button 282, the seller will be provided with a list of buyer buying criteria that the buyers 15 manually inputted into the window 160 of Fig. 4a. This allows the sellers 20 to review criteria that is important to their buyers, which the seller were not aware. If a seller 20 chooses to

click on the "Open New Deal" button 278, the seller 20 will enter into a "Seller's Product Selling Criteria" input screen 300, as illustrated in Fig. 8b. If the seller 20 chooses to click on the "Modify Existing Deal" button 280, the seller 20 will enter into a "Seller's Product Offering Criteria" input screen 330, as illustrated in Fig. 8c
5 with the seller being prompted to enter a deal number, which causes the ordering criteria of the chosen deal number to be editable in the input screen.

Referring to Fig. 8b illustrating the "Seller's Selling Criteria" input screen 300, the seller 20 can begin building a new deal by first selecting a number of seller additional criteria, and seller criteria from a list in a scroll down menu 302 and a list
10 in scroll down menu 306, respectively. The seller can click on the "Add Seller Additional Criteria" button 304 for adding seller additional criteria from the scroll down menu 302 into a window 310 containing a deal criteria list 303. The deal criteria list 303 includes a first portion listing the "Product Agreed upon Seller Criteria" 305, decided by the group of sellers for a particular product/service and/or
15 the system administrator, a second portion which is the seller criteria list 307 and a third portion which is the seller additional criteria list 309. It should be noted that the criteria in the seller additional criteria list is not a mandatory criteria for the buyer when the buyer is inputting the buyer's buying criteria in step 245 of Fig. 5, but is listed in the terms and condition step 265 after a deal is chosen by the buyer. The
20 seller can add seller criteria by selecting the criteria from the scroll down bar 306 and clicking on the "Add Seller Criteria" button 308. The seller can remove any of the criteria from the overall criteria list, except for the "Product Agreed upon Seller Criteria", by highlighting the selection with the computer mouse and clicking on a "Remove from List" button 312. The seller 20 can add new selling criteria by clicking
25 on a hyperlink 316 labeled "Add New Criteria" sending the seller 20 to an "Adding and Modifying Deal Criteria" screen 360, illustrated in Fig. 8d. The seller can modify a current criteria by highlighting the criteria in window 310 and clicking on a hyperlink 318 labeled "Modify Existing Criteria" sending the seller to the "Adding and Modifying Deal Criteria" screen 360 with the criteria information defaulting to
30 the highlighted criteria for modification therefrom.

Referring now to Fig. 8c, once the criteria is selected and submitted, the system generates the "Seller's Product Offering Criteria" input screen 330. A seller number 331, a product type 332 and a current deal number 333 are automatically generated at the top of input screen 330. The seller 20 can enter offering limits relating to the selling criteria of the seller's product for a particular deal. The seller's offering criteria of this example includes: price 166 in dollars per pound; volume range 168 in the number of pounds; delivery time 170 in days; the % of defects 172 in percent; and the warranty 174 in months. The seller 20 can then list the names of the buyers 15 in a window 344 that the deal is being offered or type in the term "All" if the offer is open to any buyer. Once the seller offering criteria is entered, the seller 20 can submit the deal by clicking on a "Submit/Modify Deal" button 350 on the computer screen by using the computer's mouse. The present invention then creates a record of the deal in a database of deals offered by various sellers 20 of the product, so that deals which seller's offering criteria match the buyer's ordering criteria can be outputted to the buyer 15 in a list of deals on the "Deals Matching Ordering Criteria" output page 180, as shown in Fig. 4c.

Referring now to Fig. 8d, the "Adding Deal Criteria" input screen 360 will be described. The seller number 331, the product type 332 and the current deal number 333 are automatically generated at the top of input screen 360. The seller 20 can enter a criteria name in the "Enter Criteria Name" box 362. The seller can then choose whether the criteria is a seller type or a seller additional criteria type from a first scroll down menu 364. The seller 20 choose a criteria type from a second scroll down menu 366 and the criteria units in a third scroll down menu 368. The seller can submit this new criteria for the current deal by clicking on the "Submit New Criteria for Current Deal" button 370 or add the new criteria for all the product deals by clicking on the "Submit New Criteria for All Product Deals" button 372. The seller 20 may at any time review the buyer inputted criteria submitted by the buyer 15 that is not in any of the seller's deals by clicking on the "Review Buyer Inputted Criteria" button 376. The seller 20 can review this list to determine whether or not the seller 20 would like to add this criteria to the present deal or all deals to ensure that they are in accord with

5 buyer needs. The seller 20 may also review the criteria that are offered by other sellers, but not the current seller, by clicking on a "Review Other Seller Criteria" button 378. This will help the seller keep current on what the other seller's selling criteria are being utilized for matching to the buyer's buying criteria to satisfy the current market demands.

10 If the seller would like to return to the "Create or Modify Deal" screen 275 the seller 20 can click on the "Cancel" button at any time. Furthermore, if the seller 20 simply desires to re-perform the search, the seller 20 at any time is able to return back to a previous screen selecting the "back" function available using an Internet browser such as, for example, Microsoft Internet Explorer, Netscape, etc. Additionally, a hyperlink to various screens, such as the search screen, preferably is provided on each web page.

15 Proceeding now to Fig. 9, the operations of the processor 100 of the central server 25 in handling sellers 20 is depicted. In particular, the processor 100 in step 400 initially determines whether a seller 20 is registered or not based on which hyperlink 130, 140 (Fig. 3) the seller 20 selects. If the seller 20 selects hyperlink 140 indicating the seller is not registered, the processor 100 proceeds to step 405. In step 405, the processor 100 provides the seller 20 with a seller's registration form 408 (Fig. 10) to fill out. The registration form 408 is similar to the registration form 208 for the
20 buyer 20 and allows the seller 20 to select a preferred user ID and password. Once completed, the processor 100 proceeds to step 410 where the seller 20 is requested to submit a credit card application so that all costs and fees associated with conducting business may be directly billed to the seller's credit card. As discussed above, the credit card approval process may occur by a third party vendor accessible via a
25 hyperlink.

Once the credit card application is submitted by the seller 20, the processor 100 proceeds to step 415 where the processor 100 determines if the credit card application has been approved. If the credit card application has not been approved, the processor 100 proceeds to step 420 where the seller 20 is informed that their credit
30 card application has not been approved and the seller 20 is provided with a customer

service telephone number so that the seller 20 may optionally set up the account in a different fashion. If, however, in step 415 the credit card application is accepted, the processor 100 proceeds to step 425 where the seller information is stored in a seller database 427 (Fig. 11). Finally, in step 430, the processor 100 is configured to provide the seller 20 with the newly issued credit card number so that the seller 20 is able to open deals. Further, the processor 100 is configured to provide a report to a system administrator who then mails a confirmation copy of the seller's information stored in the seller's database to the seller 20. This completes the seller's registration process.

Continuing to refer to Fig. 9, if in step 400 a seller has already registered, the seller 20 may login as a registered user by selecting the registered user hyperlink 130 (Fig. 3). Once selected, the processor 100, in step 435 prompts the seller 20 to enter their user ID and password. Upon input of the user ID and password, the processor 100 proceeds to step 440 where the processor 100 verifies a valid user ID and password have been entered by comparison with the information stored in the seller database 427 (Fig. 11). If the user ID and password entered by the seller 20 does not match any entry in the seller database 427, the processor 100 in step 440 returns to step 435 for re-entry of such information. If, however, in step 440, a valid user ID and password are entered, the processor 100 proceeds to step 445.

Upon successful entry of a user ID and password, the seller 20 is provided with a seller option screen 275 as shown in Fig. 8a. For example, the seller 20 may decide to open a new deal 182 or the seller 20 may decide to view a current deal 182 for one of a number of goods or services offered by the seller 20 or review a list of buyer inputted criteria. Accordingly, if in step 445, the processor 100 determines that the seller 20 desires to open new deal 182 for a selected product, the processor 100 proceeds to step 460.

In step 460, the processor 100 requests that the seller 20 enter the seller's selling criteria, so that the system can build a seller's product offering criteria input screen, in step 465. For example, in the present aspect the product agreed upon seller criteria is the volume range of the order and the price per pound of the order, the

seller's selling criteria includes the delivery time and warranty with quality to be added next, and the seller additional criteria is that the buyer pay the cost of shipping the goods. As discussed above, the processor 100 utilizes the information input from the seller 20 to display a seller's product ordering input form 330.

5 In step 465, the processor 100 request that the seller enter the limits associated with the seller's selling criteria chosen in step 460, and the list of buyer's entitled to be offered the present deal. The information is entered and submitted to form a deal. The processor 100 uses this information to match buying and ordering criteria of the buyer with selling and offering criteria of the seller, so that deals can be completed in an expedited manner.

10 Continuing to refer to Fig. 9, if in step 445, the seller 20 has not selected to open a new deal, the processor 100 determines in step 450 whether the seller 20 has decided to modify an existing deal 182. In the present aspect of the invention, the seller 20 is limited to modify those deal which they have opened. Accordingly, if the processor 100 determines that the seller does desire to modify a deal 182, the processor 100 provides the seller 20 with a list of deals 180 which the seller has opened. Upon selection of one of the deals 182, the processor 100 proceeds to step 455 where the deal 182 is displayed to the seller 20. If a deal 182 is not entered in step 450, or following steps 455 and 460, the processor 100 returns to step 445.

20 The present invention may be implemented *via* object oriented programming techniques. In this case each component of the system, could be an object in a software routine or a component within an object. Object oriented programming shifts the emphasis of software development away from function decomposition and towards the recognition of units of software called "objects" which encapsulate both data and functions. Object Oriented Programming (OOP) objects are software entities comprising data structures and operations on data. Together, these elements enable objects to model virtually any real-world entity in terms of its characteristics, represented by its data elements, and its behavior represented by its data manipulation functions. In this way, objects can model concrete things like people and computers, and they can model abstract concepts like numbers or geometrical concepts.

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The benefit of object technology arises out of three basic principles: encapsulation, polymorphism and inheritance. Objects hide or encapsulate the internal structure of their data and the algorithms by which their functions work. Instead of exposing these implementation details, objects present interfaces that represent their abstractions cleanly with no extraneous information. Polymorphism takes encapsulation one step further - the idea being many shapes, one interface. A software component can make a request of another component without knowing exactly what that component is. The component that receives the request interprets it and figures out according to its variables and data how to execute the request. The third principle is inheritance, which allows developers to reuse pre-existing design and code. This capability allows developers to avoid creating software from scratch. Rather, through inheritance, developers derive subclasses that inherit behaviors which the developer then customizes to meet particular needs.

In particular, an object includes, and is characterized by, a set of data (*e.g.*, attributes) and a set of operations (*e.g.*, methods), that can operate on the data. Generally, an object's data is ideally changed only through the operation of the object's methods. Methods in an object are invoked by passing a message to the object (*e.g.*, message passing). The message specifies a method name and an argument list. When the object receives the message, code associated with the named method is executed with the formal parameters of the method bound to the corresponding values in the argument list. Methods and message passing in OOP are analogous to procedures and procedure calls in procedure-oriented software environments.

However, while procedures operate to modify and return passed parameters, methods operate to modify the internal state of the associated objects (by modifying the data contained therein). The combination of data and methods in objects is called encapsulation. Encapsulation provides for the state of an object to only be changed by well-defined methods associated with the object. When the behavior of an object is confined to such well-defined locations and interfaces, changes (*e.g.*, code modifications) in the object will have minimal impact on the other objects and elements in the system.

Each object is an instance of some class. A class includes a set of data attributes plus a set of allowable operations (*e.g.*, methods) on the data attributes. As mentioned above, OOP supports inheritance - a class (called a subclass) may be derived from another class (called a base class, parent class, etc.), where the subclass inherits the data attributes and methods of the base class. The subclass may specialize the base class by adding code which overrides the data and/or methods of the base class, or which adds new data attributes and methods. Thus, inheritance represents a mechanism by which abstractions are made increasingly concrete as subclasses are created for greater levels of specialization.

The present invention can employ abstract classes, which are designs of sets of objects that collaborate to carry out a set of responsibilities. Frameworks are essentially groups of interconnected objects and classes that provide a prefabricated structure for a working application. It should also be appreciated that the PCM and the shared memory components could be implemented utilizing hardware and/or software, and all such variations are intended to fall within the appended claims included herein.

According to an exemplary aspect of the present invention, Java and CORBA (Common Object Request Broker Architecture) are employed to carry out the present invention. Java is an object-oriented, distributed, secure, architecture neutral language. Java provides for object-oriented design which facilitates the clean definition of interfaces and makes it possible to provide reusable "software ICs." Java has an extensive library of routines for copying easily with TCP/IP protocols like HTTP and FTP. Java applications can open and access objects across a network via URLs with the same ease to which programmers are accustomed to accessing a local file system.

Furthermore, Java utilizes "references" in place of a pointer model and so eliminates the possibility of overwriting memory and corrupting data. Instead of pointer arithmetic that is employed in many conventional systems, the Java "virtual machine" mediates access to Java objects (attributes and methods) in a type-safe way. In addition, it is not possible to turn an arbitrary integer into a reference by casting (as

would be the case in C and C++ programs). In so doing, Java enables the construction of virus-free, tamper-free systems. The changes to the semantics of references make it virtually impossible for applications to forge access to data structures or to access private data in objects that they do not have access to. As a result, most activities of viruses are precluded from corrupting a Java system.

Java affords for the support of applications on networks. Networks are composed of a variety of systems with a variety of CPU and operating system architectures. To enable a Java application to execute anywhere on the network, a compiler generates an architecture neutral object file format -- the compiled code is executable on many processors, given the presence of the Java runtime system. Thus, Java is useful not only for networks but also for single system software distribution. In the present personal computer market, application writers have to produce versions of their applications that are compatible with the IBM PC and with the Apple Macintosh. However, with Java, the same version of the application runs on all platforms. The Java compiler accomplishes this by generating byte code instructions which have nothing to do with a particular computer architecture. Rather, they are designed to be both easy to interpret on any machine and easily translated into native machine code on the fly.

Being architecture neutral, the "implementation dependent" aspects of the system are reduced or eliminated. The Java virtual machine (VM) can execute Java byte codes directly on any machine to which the VM has been ported. Since linking is a more incremental and lightweight process, the development process can be much more rapid and exploratory. As part of the byte code stream, more compile-time information is carried over and available at runtime.

Thus, the use of Java in the present invention provides a server to send programs over the network as easily as traditional servers send data. These programs can display and manipulate data on a client computer. The present invention through the use of Java supports execution on multiple platforms. That is the same programs can be run on substantially all computers - the same Java program can work on a Macintosh, a Windows 95 machine, a Sun workstation, etc. To effect such multi-

platform support, a network interface 105 and a network browser (not shown) such as Netscape Navigator or Microsoft Internet Explorer may be used in at least one aspect of the present invention. It should be appreciated, however, that a Java stand-alone application may be constructed to achieve a substantially equivalent result. Although the present invention is described with respect to employing Java, it will be appreciated that any suitable programming language may be employed to carry out the present invention.

An Internet explorer (*e.g.*, Netscape, Microsoft Internet Explorer) is held within the memory of the client computer. The Internet Explorer enables a user to explore the Internet and view documents from the Internet. The Internet Explorer may include client programs for protocol handlers for different Internet protocols (*e.g.*, HTTP, FTP and Gopher) to facilitate browsing using different protocols.

It is to be appreciated that any programming methodology and/or computer architecture suitable for carrying out the present invention may be employed and are intended to fall within the scope of the hereto appended claims.

Alternative Aspects of the Present Invention

Buyer Sponsored Deal Room

Regarding Fig. 14, although the present invention has been largely described within the context of a seller sponsored deal room, it is to be appreciated that a buyer or buyers may sponsor a deal room to aggregate purchasing goods/services from a plurality of sellers. For example, a large corporate buyer may employ the present invention to create a deal room where a plurality of sellers may assemble to aggregate selling of specific goods and/or services that the buyer desires. Such a transaction facilitates the buyer satisfying purchase requirements in one forum and to coordinate deliver of goods/services. Furthermore, such a system facilitates sellers making sales to the buyer, which but for the sellers being able to aggregate the buyer may not have dealt with the individual seller because of insufficient capacity to meet the buyers needs. The subject specification describes exemplary systems and interfaces for

implementing the subject invention, and therefore further discussion thereto is omitted for sake of brevity. However, it is to be appreciated that one skilled in the art based on the above discussion regarding seller sponsored deal rooms/transactions could apply such teachings to implement the aforementioned buyer sponsored deal room/transaction.

Multiple Buyer and Multiple Seller Sponsored Deal Room/Transaction

Regarding Fig. 15, although the present invention has been largely described within the context of a seller sponsored deal room/transaction, it is to be appreciated that buyers and sellers may concurrently sponsor a deal room/transaction to aggregate selling of and purchasing of goods/services by a plurality of sellers and buyers respectively. For example, a multiple sellers and buyers may employ the present invention to create a deal room/transaction forum where a plurality of sellers and buyers may assemble to aggregate selling and buying of specific goods and/or services that the sellers wish to sell and the buyers desire to purchase. Such a transaction forum creates great efficiencies with respect to purchase price and/or selling quantity of particular goods/services. For example, in such a forum dedicated to the selling and purchasing of a specific product/service, sellers can assemble to compete for the sale of their respective product/service which leads to pricing efficiencies. Buyers can assemble in such a forum to aggregate buying power in order to negotiate good prices and close deals. Sellers on the other hand may also aggregate to meet the needs of a large buying block. The subject specification describes exemplary systems and interfaces for implementing the subject invention, and therefore further discussion thereto is omitted for sake of brevity. However, it is to be appreciated that one skilled in the art based on the above discussion regarding seller sponsored deal rooms/transactions could apply such teachings to implement the aforementioned buyer sponsored deal room/transaction.

OpenOffer Management System

One alternative aspect of the present invention affords for creating, altering and/or managing OpenOffer sheets on more than one Private DealRoom at the same time.

5 This aspect of the invention (preferably implemented via software) enables the company completing an OpenOffer Sheet to select those private dealrooms it wishes to submit the OpenOffer sheet. For example, a first OpenOffer sheet with one price and volume schedule may be automatically submitted to DealRoom #1 and #2. A
10 second OpenOffer sheet can be submitted for the same product with different price points and volume schedules to DealRoom #3. The system enables a supplier to track any number of dealrooms and label a customer accordingly. The supplier may create subsets of private dealrooms at any time through grouping the dealrooms and saving them with a different name (e.g., - mid-size companies, tier one, large company). This
15 enables the supplier the real-time ability to segment all or some customers according to any number of criteria and present current pricing and capacity information. Therefore, the system is a tool for creating any number of pricing configurations among different products and updating those prices and volumes in a moment's notice among the selected dealrooms.

20 A company is able to see a pricing summary by product type across all dealrooms. For example, the ability to select a product category and have the system return a list of the prices submitted for each along with the current price and the lowest price to be achieved. This allows for the company to track pricing strategy across all dealrooms. The information can be reviewed in any number of configurations: pie chart, bar chart, scatter chart, etc. and any subsets of dealrooms.
25 Statistical numbers are also available including totals, averages, etc.

The system also provides a running list of all buyers that have access to all DealRooms supported by the company. This is done through a search file in that private dealroom and saved to the master management system. Every dealroom has a different URL such as WCeWinWin.com or ADeWinWin.com with the requisite

security. The system is also capable of performing a search by entering the customer name which then provides the proper dealroom and password. Changes may be made by the supplier.

5 The option to have an OpenOffer Sheet posted on a regular interval and/or to have it programmed to reset the offer with a rolling date (e.g., - daily, weekly, bi-weekly, monthly) is available on the master and individual sites. In addition, the ability to alter a component(s) of the OpenOffer Sheet and save that variation under a different stored name is possible. For example, if price is selected to stay constant while the ship date changes to the next business day on a regular interval, that
10 openoffer sheet can be saved and posted. The iteration will change with the passing of time. Likewise, the function of freezing all OpenOffer sheets with or without intervals is possible with a simple freeze command.

The ability to retract a previous OpenOffer sheet is available as well. This recall feature will pull the offers from all of the dealrooms or a combination selected
15 by the supplier. The product name and identification number can be accessed and the recall feature engaged. In the event that orders are already placed within the openoffer sheets, the supplier will fulfill the order as scheduled.

The supplier can also list and search openoffers that have no orders. This is done with a quick search that will pull up the openoffers, dealroom URL, projected
20 ship date, etc. The master list can be perused and when highlighted, the supplier has the option of modifying the information accordingly and then post again within the specified dealrooms. Such changes as price, volumes, ship dates, close dates, etc. can be made and the new dealrooms submitted.

25 The ability for a supplier to create another dealroom online instantly is available. The option is resident on particular website (e.g., the current site). The supplier highlights a create new dealroom option and is presented with the room identification number and the base URL. The supplier is asked to name the URL with up to a certain number of digits. Once the name and administrator's password is

selected, the new dealroom is available. Additional information including contact name, e-mail address of contact, etc. is resident.

The ability for a company to create a private dealroom online for invited buyers is provided. The invited buyers are notified of the opening of the dealroom and given a username and password, so that their name remains anonymous. Preferred customers can also be given special pseudonyms, so that they can travel from dealroom to dealroom, while maintaining their anonymity from reports generated by other suppliers and buyers utilizing the OpenOffer Management system. The option of automatically sending e-mail notification of the deal to preferred customers is provided.

The ability for a company to create a private dealroom online, without revealing their identity is provided. The supplier can enter a pseudonym and basic company criteria, such as the type of company (e.g. fortune 500, midsize, small), quality ranking, type of business (e.g., specialized, conglomerate). The company can then track purchases and demand utilizing the pseudonym. The dealroom can be configured to be offered to a specified group, such as distributors or preferred customers, or the general public as a blind offer. The deal room can be configured as a single order deal or as a time specified deal that allows buyers to aggregate in and reduce the price.

The ability to request transaction fees in real-time across all dealrooms. The fee structure is applied for that customer based on the number of single transactions (e.g., completion of openoffer sheet by customer) and this figure is calculated accordingly for an online transactional fee.

Demand Aggregator System

This aspect of the present invention (preferably implemented via software) captures and collates either all current or historical orders from all OpenOffer sheets.

An OpenOffer Request Form enables a buyer on the system to alert suppliers of the product needed, category, quantity and when shipment is required. This allows

the suppliers to respond with OpenOffer Sheets that match this need. The alert is by e-mail to the designated address given by the supplier. The buyer can request a private deal room, so that the identity of the buyer remains anonymous. The buyer can provide a pseudonym or an e-mail address, so that the supplier can notify the buyer or post a message to the buyer.

An OpenOffer Request Summary is available by product category. For instance, the supplier may wish to aggregate requests from all dealrooms by product category. In this way, the supplier may see the level of demand required by its buyers in advance of placing an OpenOffer for the product. This feature can be accessed in real-time. An icon can be clicked to show the summary of products being requested and pertinent data related to shipments. Excess capacity can be priced to preferred customers.

The ability to compare current orders for a product on a timeline with the aggregated volume received from OpenOffer Requests for the same product and requested ship dates is available. This aggregation and comparison enables the supplier to better estimate production estimates and forecasts. This allows for better planned production and the ability to evaluate the cost savings in terms of labor, material, production runs, etc. which, in turn, enables the supplier to estimate the savings and prepare the appropriate price and volume points.

A search engine system is included for searching for deals over different supplier sites including the particular product requested.

Other information included in the system:

- Total capacity posted by product, total, timeline, etc.
- Total number of orders placed by product, total, timeline, etc.
- % of capacity remaining by each product category measured over the timeline

- Average price per product by product category, by dealroom, by customer, etc.
- Historical timeline of product ordered, average price, breakdown by dealroom,...
- 5 • Historical review of total capacity listed by product that went unpurchased
- Historical review of total orders over days, weeks, months, quarters, etc.
- Chart of top customers for each product line
- Projected sales taking historic information by product and extrapolating over time by weeks, months, etc.
- 10 • Trend analysis of product mix over periods of time
- Ability to evaluate the volume of unpurchased product over the upcoming months and when such capacity will be taken off market (e.g.,- termination of specials from completed OpenOffer Sheets with close dates)

Private Buyer DealRoom Management System

- 15 This aspect of the present invention affords the buyer to review product summaries and order information in any number of ways on the system based on private buyer dealroom transactions:
- Total orders placed by product, group, average, etc.
 - Total share by product type for each supplier - measured over days, weeks, months, etc.
 - 20 • Summary of supplier ranking by product category

- Summary of current pricing information by product category
- Historical review of total orders over days, weeks, months, quarters, etc.
- Projected orders for each product taking historic information and extrapolating over time by weeks, months, etc.
- 5 • Trend analysis of product mix over periods of time
- This trend analysis is available on the site for suppliers to review in order to complete OpenOffer Sheets with relevant volumes
- Ability to compare percentage of products delivered on-time by product category over days, weeks, months, etc,
- 10 • Ability to compare percentage of products that meet quality criteria
- Ability to compare percentage of product suppliers with good customer service
- Ability to trend the price for a product over time: days, months, quarters, years
- Ability to profile a supplier over any period of time in price, quality, customer service, and deliver with a line chart showing trends to those suppliers via e-mail
- 15 • Ability to profile suppliers of a similar product in such a way to compare performance over time
- Ability to provide access for suppliers to see relative performance of their company versus other companies in the same category
- 20 • The function of setting minimum performance rankings for suppliers and when suppliers fail to meet these standards, the buyer is notified of - the buyer has

the option of having an icon to click which will list those suppliers who are in jeopardy along with a brief order summary and ranking totals

- Ability to send to new suppliers via e-mail
- Ability to review the number of orders placed online and the fees associated with

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Trend Analysis System

This aspect of the present invention (preferably implemented via software) captures and collates either all current or historical orders from all OpenOffer and OpenOffer Request sheets.

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The trend analysis system aggregates patterns of buyers in purchases and demands. The trend analysis system also aggregates patterns of suppliers in offers and performance criteria to form a variety of trend analysis reports. The system also enables analysis of buyers to facilitate buying blocks for buyers and to assist suppliers in adjustment of their deal room offers. The trend analysis system also provides reports on anonymous buyers and sellers via a pseudoname. The system can communicate between websites to rank suppliers based on different criteria. The system can also establish transactional profiles based on industries, geographical location and time periods. The various trend analysis can be provided in different formats (e.g. pie charts, time lines, etc.). The trend analysis system can be utilized to identify various problems with buyer OpenOfferRequest trends and supplier OpenOffer trends and communicated back to the buyers and/or suppliers.

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Market Share System Reports

This aspect of the present invention (preferably implemented by software) is capable of providing a file for suppliers to see the relative market share they have for a single product versus their competition. Substantially every item but price is able to be reviewed by the supplier online with the same functionality as the Private Buyer DealRoom Management System.

OpenOffer Merge File

For the buyer, the ability to place an order on any sponsored site and after placing the order, have the option to present the order in an ASCII II, comma delimited file that will be sent to a specified e-mail account automatically. The icon ASCII II will be available for the supplier to hit at the beginning of the purchasing process which will cover all purchases made on that site. The ASCII II information will be posted to the e-mail address indicated by the buyer. This feature will also be included as a default set-up under MyeWinWin. This feature will then be engaged whenever a buyer has set up this default and will travel with the buyer from the site to the sponsor site. MyeWinWin is then activated whenever the buyer places an order on the sponsor site. Fig. 12 is a schematic illustration of an ordering process.

Dynamic Pricing Model

The previous activity of the buyer on a site is recorded on such criteria as amount of cancelled orders (as expressed by a number of %), the track record of on-time payment, etc. until a ranking is assigned to the buyer either manually or by default criteria set by the manufacturer. For instance, a buyer with a 100% rate of taking receipt of all orders online and 100% of paying within 30 days would be assigned a high value such as AA. When this buyer returned to the site and entered a password, the AA rating would be denoted and a series of value-added services would be made available to that buyer such as a 5% discount for placing an aggregated order,

special offers such as a rebate of x amount when the buyer is the first to place an order in the aggregated OpenOffer, etc.

In addition, a dynamic price can be assigned to the ranking of a buyer. For instance, buyers can be ranked in various groups such as AA, BB, or CC based on their past history. The AA can be tied to an automatic 5% discount whereby all aggregated prices change automatically when the password of that company is entered. A company with a CC ranking could actually see a 5% premium when they visited the same site, simply based on the password and their past performance. The buyer that has a history of canceling may carry a higher cost to the supplier...this cost, in turn, can be programmed into that particular buyer's experience on their site. In this way, additional dealrooms may not be required as the same dealroom will take on the characteristics of that buyer.

The rating of a buyer on one particular dealroom can be aggregated and averaged along with the dealrooms of other suppliers to develop an accurate "buyer profile." This profile can be accessed by supplier to determine what customers visit their dealroom and what prices they eventually see.

Not Exceed Pricing Option

A supplier can list as an option for certain customers a NOT TO EXCEED option. In this case, a buyer has already negotiated a NOT TO EXCEED price through a blanket contract for a set period of time (e.g., - one year). The NTE tag along with the set price is programmed into the site through a series of fields. The buyer places orders on the aggregated schedule at any time. If the eventual price is below the NTE price, the order is executed at the lower price. If the eventual price is above the NTE price, the buyer is guaranteed that the highest price paid will be the NTE price. The benefits are as follows: the buyer is capable of only bettering the price negotiated at the beginning of the year, the buyer gains the advantage of playing

regional prices to their advantage, and the supplier can secure a year-long contract to baseload the business while adding value for this prime customer.

Baseload Option

5 The baseload option status is conferred upon a buyer. In this case, the supplier negotiates a better price at the onset of the year in exchange for guaranteed acceptance of product orders throughout the year by the buyer. Once the buyer accepts shipment over the course of the year on pre-determined dates, the supplier can then post planned inventory in advance based on this baseloaded business. For instance, if the buyer agrees to accept shipment of 100 racks of glass the first week of every month for the next six months, the supplier then posts the availability of an additional 50 racks of the same glass for the same week. The existing of the original buyer provides a base that absorbs much of the fixed costs associated with the schedule while the incremental 50 racks represents proper capacity utilization at much higher profit margins.

15 The schedule can be posted in advance at prices that create an incentive for additional orders from other buyers on the site. A NTE price option can also be given to this supplier.

Show Status

20 This status can be conferred on a buyer as an incentive for the buyer to place orders early in the cycle of a product. A point system can be applied for the buyer. For every time a buyer is the first company to place an order in an OpenOffer Sheet, points can be accrued that result in a year-end rebate or some other incentive. For instance, 5 points assigned to every time the company is the first to order in an OpenOffer sheet applies towards the points needed by the end of the year to secure a discount. Such an incentive creates customer loyalty and rewards a buyer beyond the

current system of discounts. Likewise, a rating system applied to non-cancellation or proper payment could further reinforce this behavior.

Real-time Price Update Screen

- 5 A screen setting is available that allows a buyer to post a series of product categories in a dealroom with the current price setting and the close date. The buyer is able to check on a real-time basis the current price of clear glass by either a supplier or group of suppliers, and the respective volume still available with the close date. A product exchange is literally available to the buyer on an as-needed and customized
- 10 basis. Likewise, the supplier can have a screen that shows the current prices of all openoffers across dealrooms and additional information.

Scheduled Production by Product Category

- 15 The supplier is capable of engaging a feature in the system to aggregate, by product category, the total amount of product that has been ordered, when it is due to ship and the remaining amount of product that is still available. By inputting the amount of available inventory of the product on site, the supplier is able to see the production schedule for the product over the next duration of a week, month, quarter or year. This schedule can be viewed in a graph form with total capacity acting as the
- 20 backdrop to total production currently booked. The system is capable of incorporating information from the supplier's MRP system in order to determine the total capacity available. Also, a field of total capacity per time period can be inserted. Now, the system can return an OpenOffer sheet automatically with the amount of volume available. The supplier can "split" the product offering among a couple of different
- 25 OpenOffer Sheets and DealRooms. The system can also alert the supplier of the DealRoom with the highest price, historically, and where the excess volume should be placed.

Demand Forecast System

The buyer and supplier both have access to a historical purchase by a product category. The buyer can review historic product demand schedules and request that the DFS take over. The Demand Forecast System takes the preceding history and conducts an average, extrapolating into the future the anticipated demand. This demand is automatically placed into OpenOffer sheets. The OpenOffer sheets can be sent to the suppliers for that product category. The supplier simply assigns a price schedule based on the volume and submits the form to the DealRoom. The process saves the supplier and buyer from calculating or requesting forecasted demand manually.

Reactive Pricing Model

Based on Orders for Product

In this case, the supplier has the option of lowering a price automatically based on market activity. A supplier of clear glass has set a price and volume schedule. If the activity of the site is such that multiple glass orders have been placed, and the data show such orders have taken place with other suppliers of the same product, registered discounts may be triggered by such activity automatically if pre-determined by the supplier. NO PRICING INFORMATION IS SHARED. Rather it is simply based on the volume of product. The supplier may come in with pricing starting at \$.29 per square foot of glass. If the trigger point is reached with enough orders being placed with other suppliers, the price is dropped to a pre-determined schedule already determined by the supplier. Conversely, the price can be set to increase if activity is skewed too heavily to the supplier in question. In this case, if orders are coming in sooner than anticipated the supplier has the option to pull the pricing schedule automatically (either dropping all current orders to their lowest point or not) and resubmit the pricing at a different schedule predetermined by the supplier.

Also, the supplier can program the price feature to engage over several DealRooms. For instance, assuming the glass price in one DealRoom is priced higher and is being accepted by the customer, the system will automatically alert the supplier of this happening and suggest additional volume be placed in that room. The program could also allow for the supplier to automatically post more product, say a specified amount, to the DealRoom with the highest price.

Additional criteria can be added to this analysis. Assuming a dealroom profile of customers that accept the order on-time, pay in a timely manner, and pay a higher price than other dealrooms would automatically be listed as the first company to receive the next available product volume.

Based on Time Left

A timed offer can also be preset with the supplier having the ability to preset dynamic pricing as the time elapses on a openoffer sheet. Assuming no one has placed an order or if available quantities are still available, the price can be programmed to drop by a percentage throughout the remainder of the bid until a hidden price point is reached. The buyers are encouraged to place their orders accordingly until the market price has been established.

The invention has been described with reference to the preferred aspects. Obviously, modifications and alterations will occur to others upon reading and understanding the preceding detailed description. It is intended that the invention be construed as including all such modifications alterations, and equivalents thereof and is limited only by the scope of the following claims.

Industrial Applicability

The subject invention has industrial applicability in at least the fields of computer systems, networks, and electronic commerce.

Claims

What is claimed is:

- 5 1. A business transaction methodology, including the steps of:
 offering a plurality of deals for at least one of a product and service offered by
 at least one seller;
 inputting a plurality of buying criteria by a buyer for the at least one of a
 product and service; and
10 outputting a list of deals from amongst the plurality of deals that match the
 buying criteria of the buyer.
2. The method of claim 1, wherein each of the plurality of deals is based
 on a plurality of selling criteria defined by the seller.
- 15 3. The method of claim 2, wherein each of the plurality of selling criteria
 defined by the seller includes an offering criteria which defines the limits of each of
 the plurality of selling criteria defined by the seller.
- 20 4. The method of claim 3, wherein each of the plurality of buying criteria
 inputted by the buyer includes an ordering criteria which defines the limits of each of
 the plurality of buying criteria inputted by the buyer.
5. The method of claim 1, wherein the list of deals from amongst the
25 plurality of deals that match the buying criteria of the buyer are the deals which the
 ordering criteria of the buyer match the offering criteria of the seller.
6. The method of claim 5, wherein the seller can add additional selling
 criteria to each of the plurality of deals.

30

7. The method of claim 1, wherein each of the plurality of buying criteria inputted by the buyer includes an ordering criteria which defines the limits of each of the plurality of buying criteria inputted by the buyer.

5 8. The method of claim 7, wherein the list of deals from amongst the plurality of deals that match the buying criteria of the buyer are the deals which match the ordering criteria of the buyer.

9. An Internet business transaction system, including:
10 a computer adapted to be employed by a facilitator for hosting a commercial transaction over the Internet, the computer providing access to at least one buyer and at least one seller to carry out the commercial transaction, wherein at least one buyer makes a purchase from the at least one seller when a plurality of buying criteria defined by the buyer matches a plurality of selling criteria defined by the seller.

15 10. The system of claim 9, wherein each of the plurality of selling criteria defined by the seller includes an offering criteria which defines the limits of the each of the plurality of selling criteria defined by the seller.

20 11. The system of claim 10, wherein each of the plurality of buying criteria defined by the buyer includes an ordering criteria which defines the limits of the each of the plurality of buying criteria defined by the buyer.

25 12. The system of claim 11, wherein the at least one buyer makes a purchase from the at least one seller when the ordering criteria of the buyer matches the offering criteria of the seller.

30 13. The system of claim 9, wherein the at least one buyer receives a discount on the purchase based on a previous purchase made by the at least one buyer from the at least one seller.

14. The system of claim 9, wherein the commercial transaction is limited to certain buyers of the at least one buyer by the at least one seller.

5 15. The system of claim 9, wherein the at least one seller can review other buyer defined buying criteria not used in the matching of the plurality of buying criteria and the plurality of selling criteria.

10 16. The system of claim 9, wherein the at least one seller can review other seller defined selling criteria not used in the matching of the plurality of buying criteria and the plurality of selling criteria.

17. A method of conducting a business transaction, comprising the steps of:
electronically offering a plurality of deals on at least one of a product and
15 service for sale, each of said plurality of deals being based on different offering criteria than each other of said plurality of deals;
electronically searching the deals on the product for sale based on a plurality of ordering criteria;
outputting a list of deals of the plurality of deals which offering criteria
20 matches the ordering criteria; and
selecting one of the deals of the list of deals which offering criteria matches the ordering criteria.

25 18. An electronic signal adapted to be transmitted between at least two computers, comprising:
an algorithm for matching a buyer with at least one deal offered by at least one seller, the algorithm matching the buyer with the at least one deal based on a plurality of buying criteria defined by the buyer matching a plurality of selling criteria defined by the at least one seller.

30

19. An Internet business transaction system, including:

means for hosting a commercial transaction over the Internet, the means for hosting providing access to at least one buyer and at least one seller to carry out the commercial transaction, wherein the at least one buyer makes a purchase from the at least one seller when a plurality of ordering criteria, fall within the outer limits of a plurality of offering criteria, each ordering criteria being based on a buyer defined buying criteria, and each offering criteria being defined by the seller.

20. An Internet business transaction system, including:

a first computer adapted to be employed by a facilitator for hosting a commercial transaction over the Internet;

a second computer adapted to be used by a buyer to link to the first computer to participate in the commercial transaction;

a third computer adapted to be used by a seller to link to the first computer to participate in the commercial transaction;

wherein the buyer makes a purchase from the seller when a plurality of buyer defined buying criteria matches a plurality of seller defined selling criteria.

21. A server, comprising:

a processor;

a memory coupled to the processor; and

a network interface coupled to the processor for transmitting and receiving data with at least one remote computer system;

wherein a plurality of deals for a product offered for sale electronically is stored in the memory, each of the plurality of deals having different seller defined selling criteria, and wherein the server is configured to receive orders for the product from a plurality of different buyers via the at least one remote computer system, by providing the plurality of buyers with at least one deal of the plurality of deals matching a plurality of buyers defined buying criteria.

22. The server of claim 21, wherein the server is configured to provide the plurality of different buyers access to view the at least one of the plurality of deals via one or more of the at least one remote computes.

5 23. The server of claim 21, wherein the server is configured to provide the plurality of different buyers with deals that the buyer defined buying criteria match the seller defined selling criteria.

10 24. A system for conducting business electronically, comprising:
a central server;
at least one computer system coupled to the server via a network;
wherein a plurality of deals for a product offered for sale electronically is stored in the central server, each of the plurality of deals having different seller defined selling criteria, and wherein the server is configured to receive orders for the
15 product from a plurality of different buyers via the at least one remote computer system, by providing the plurality of buyers with at least one deal of the plurality of deals matching a plurality of buyer defined buying criteria.

20 25. The system of claim 24, wherein the server is configured to provide the plurality of different buyers access to view the at least one of the plurality of deals via one or more of the at least one remote computes.

25 26. The system of claim 24, wherein the server is configured to provide the plurality of different buyers with deals that the buyer defined buying criteria match the seller defined selling criteria.

27. A business transaction methodology, including the steps of:
offering a plurality of deals for at least one of a product and service offered by at least one buyer;
30 inputting a plurality of selling criteria by a seller for the at least one of a product and service; and

outputting a list of deals from amongst the plurality of deals that match the selling criteria of the seller

28. An electronic-based forum for conducting business transactions,
5 comprising:

means for creating a virtual deal room accessible by at least one seller and a plurality of buyers, the virtual deal room being dedicated to carrying out a business transaction for a specific product or service;

10 means for aggregating purchase orders from at least two of the buyers of the plurality of buyers;

means for presenting the aggregated purchase orders to the at least one seller;
and

means for closing a transaction between the at least one seller and the at least two buyers regarding the aggregated purchase orders.

15 29. An electronic-based forum for conducting business transactions,
comprising:

a first system for creating a virtual deal room accessible by at least two sellers and at least two buyers, the virtual deal room being dedicated to carrying out a
20 business transaction for a specific product or service;

a second system for aggregating at least one of purchase orders or offers for sale of the specific product or service from at least one group of the sellers and buyers;

a third system for presenting the at least one of the aggregated purchase orders or aggregated offers for sale to at least one seller or buyer, respectively; and

25 a fourth system for closing a transaction for the specific product or service.

30. An electronic-based forum for conducting business transactions,
comprising:

a first system for creating a virtual deal room accessible by one buyer and a
30 plurality of sellers of a specific product or service;

a second system for aggregating offers for sale of the specific product or service from at least two of the sellers;

a third system for presenting the aggregated offers for sale to the buyer; and

a fourth system for closing a transaction for the specific product or service.

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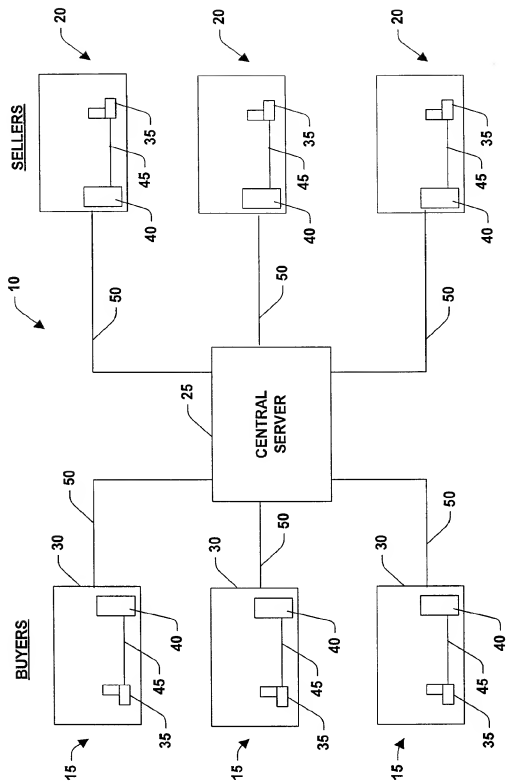
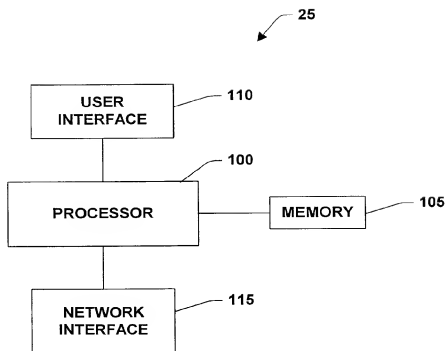


Fig. 1

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**Fig. 2a**

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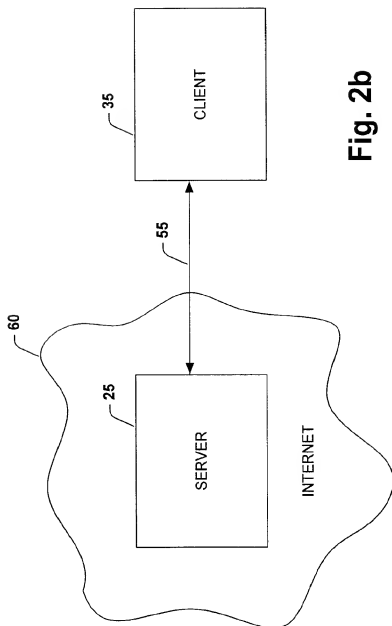
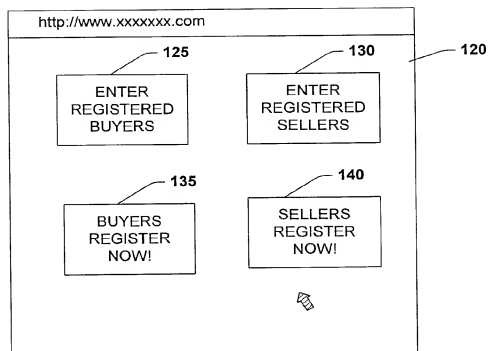


Fig. 2b

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**Fig. 3**

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150

BUYER'S BUYING CRITERIA

SELECT PRODUCT/SERVICE 152

PRODUCT/SERVICE ▼

SELECT BUYING CRITERIA

BUYING CRITERIA ▼ 154

156

ADD TO LIST

158

REMOVE FROM LIST

160

SELLER SELLING CRITERIA LIST:
VOLUME RANGE
PRICE PER LB RANGE

BUYER BUYING CRITERIA LIST:
DELIVERY TIME
WARRANTY

TYPE IN ADDITIONAL CRITERIA IMPORTANT TO BUYER:
GLASS PURITY
GLASS TYPE

162

SUBMIT CRITERIA

Fig. 4a

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165

PRODUCT: GLASS

BUYER'S PRODUCT ORDERING CRITERIA

166 ENTER PRICE RANGE: ____ - ____ (dollars/pound)

168 ENTER VOLUME RANGE: ____ - ____ (pounds)

170 ENTER DELIVERY RANGE: ____ - ____ (days)

172 ENTER ACCEPTABLE % DEFECTS: ____ (percent)

174 ENTER MINIMUM WARRANTY: ____ (months)

LIST SELLERS PREVIOUSLY USED BY BUYER

SELLER #1
SELLER #2
SELLER #3
SELLER #4

176

178 SEARCH FOR DEAL

Fig. 4b

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DEALS MATCHING ORDERING CRITERIA

<u>SELLER</u>	<u>DEAL#</u>	<u>VOLUME</u>	<u>P/LBS.</u>	<u>DEL. TIME</u>	<u>WARRANTY</u>	<u>%DEFECTS</u>
SELLER #1	1	OVER 100	\$6.00	10 DAYS	12 MONTHS	5%
	2	30-100	\$7.00	5 DAYS	18 MONTHS	3%
	3	10-30	\$12.00	5 DAYS	36 MONTHS	0.05%
SELLER #2	1	OVER 50	\$5.75	7 DAYS	12 MONTHS	3%
SELLER #3	1	0-50	\$7.00	5 DAYS	12 MONTHS	3%
	2	OVER 50	\$6.50	3 DAYS	12 MONTHS	3%
SELLER #4	1	OVER 10	\$9.00	7 DAYS	24 MONTHS	1%
SELLER #5	1	OVER 50	\$6.25	5 DAYS	12 MONTHS	3%

ENTER DEAL

ENTER SELLER: SELLER #3

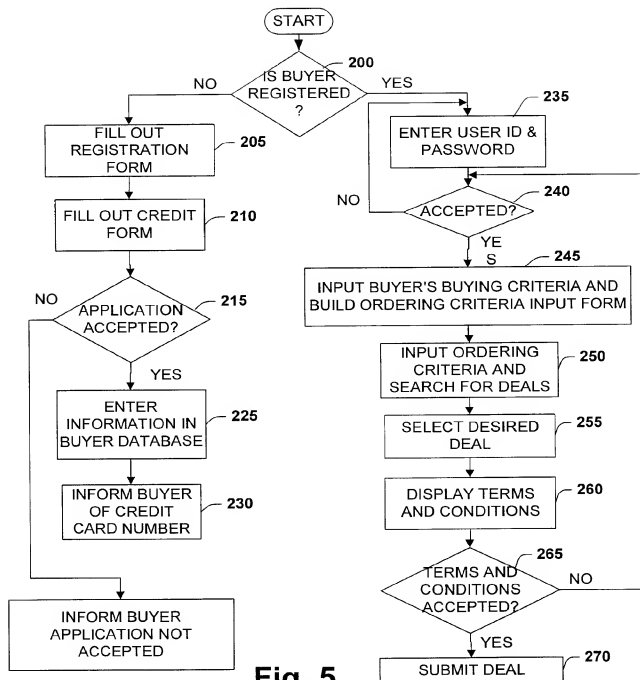
ENTER DEAL NUMBER: DEAL # 3

ENTER VOLUME ORDER: 90

SUBMIT DEAL

Fig. 4c

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**Fig. 5**

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BUYER REGISTRATION

BUYER NAME:

ADDRESS:

PRIMARY CONTACT:

TELEPHONE:

FAX:

E-MAIL:

DESCRIPTION OF COMPANY:

PREFERRED USER NAME:

PREFERRED PASSWORD:

PREFERRED PASSWORD (VERIFICATION):

Fig. 6

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270

BUYER DATA NAME, ADDRESS, CONTACT, ETC.	USER NAME	PASSWORD	CREDIT CARD NO. & EXP.
BUYER 1	USER NAME (1)	PASSWORD (1)	XXXXXXXXXX EXP. 05/03
.	.	.	.
.	.	.	.
.	.	.	.
BUYER (N)	USER NAME (N)	PASSWORD (N)	CREDIT CARD (N)

Fig. 7

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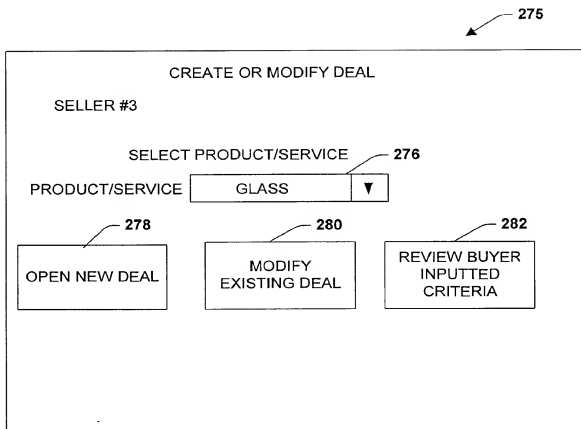


Fig. 8a

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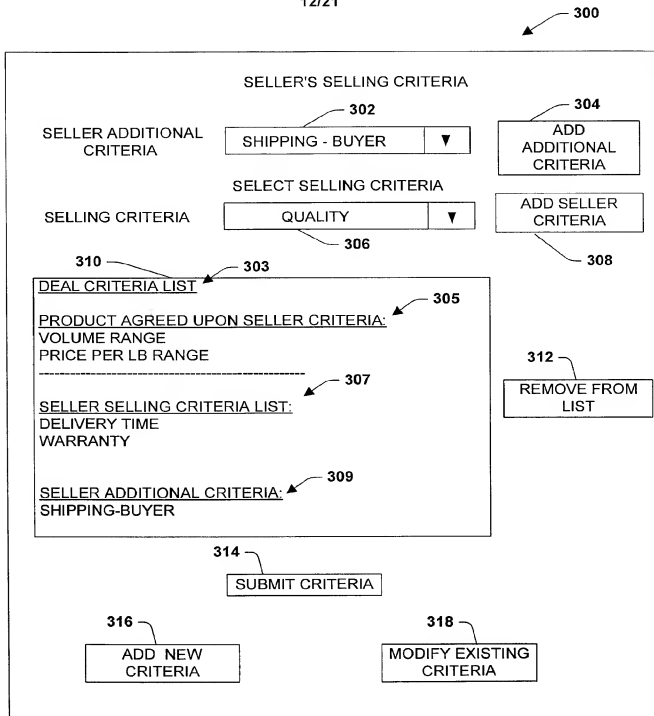


Fig. 8b

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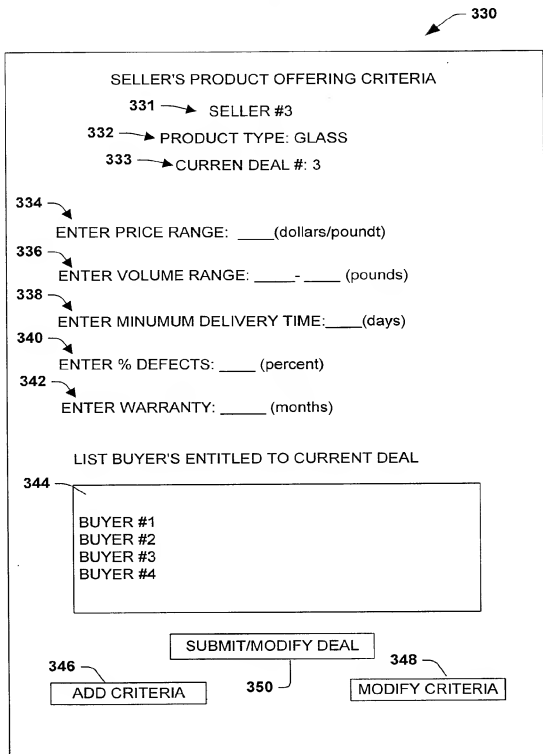


Fig. 8c

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360

ADDING DEAL CRITERIA

331 → SELLER #3

332 → PRODUCT TYPE: GLASS

333 → CURRENT DEAL #: 3

362 →

ENTER CRITERIA NAME: GLASS PURITY

364 → SELLER/SELLER ADDITIONAL

SELLER	▼
SELLER ADDITIONAL	

366 → CRITERIA TYPE

RANGE	▼
TYPE	
MINIMUM	
MAXIMUM	

368 → CRITERIA UNITS

PERCENT	▼
UNITS	
POUNDS (L.B.)	
KILOGRAMS	
NONE	
DAYS	
MONTHS	
YEARS	
DOLLARS	

370 → SUBMIT NEW CRITERIA FOR CURRENT DEAL

372 → SUBMIT NEW CRITERIA FOR ALL PRODUCT DEALS

376 → REVIEW BUYER INPUTTED CRITERIA

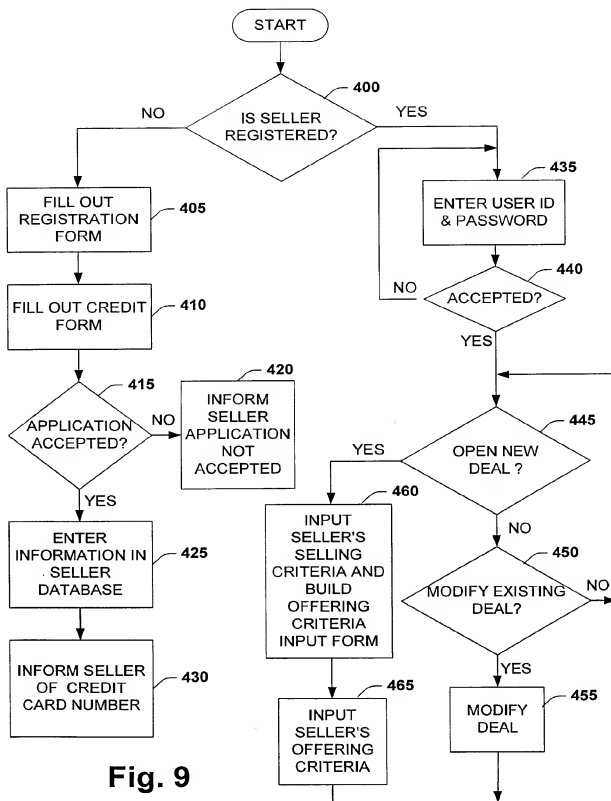
378 → REVIEW OTHER SELLER CRITERIA

380 → CANCEL

376

Fig. 8d

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**Fig. 9**

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408


SELLER REGISTRATION
SELLER NAME:
ADDRESS:
PRIMARY CONTACT:
TELEPHONE:
FAX:
E-MAIL:
DESCRIPTION OF COMPANY:
PREFERRED USER NAME:
PREFERRED PASSWORD:
PREFERRED PASSWORD (VERIFICATION):

Fig. 10

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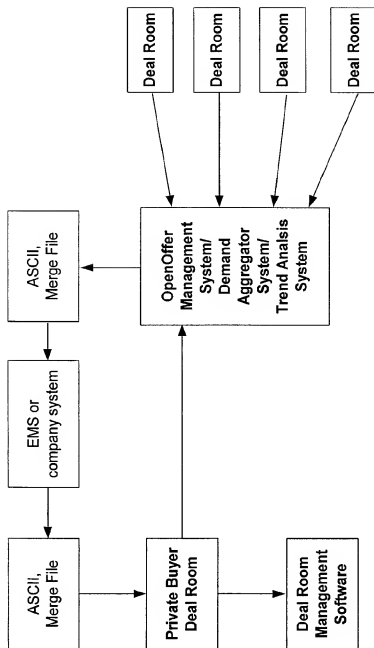
427
↙

SELLER DATA NAME, ADDRESS, CONTACT, ETC.	USER NAME	PASSWORD	CREDIT CARD NO. & EXP.
SELLER 1	USER NAME (1)	PASSWORD (1)	XXXXXXXXXX EXP. 07/03
.	.	.	.
.	.	.	.
.	.	.	.
SELLER (N)	USER NAME (N)	PASSWORD (N)	CREDIT CARD (N)

Fig. 11

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Ordering Process

**Fig. 12**

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Seller Sponsored Transaction

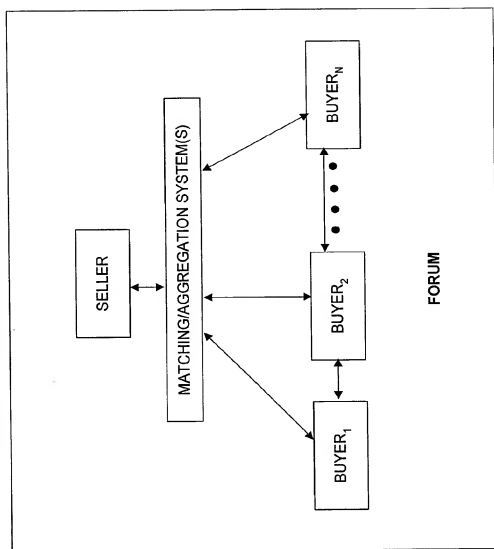
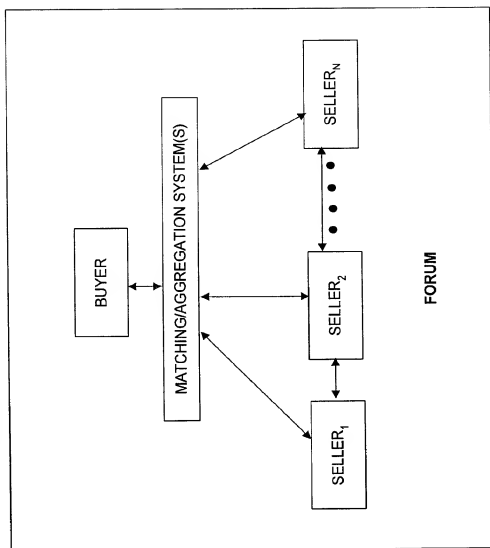


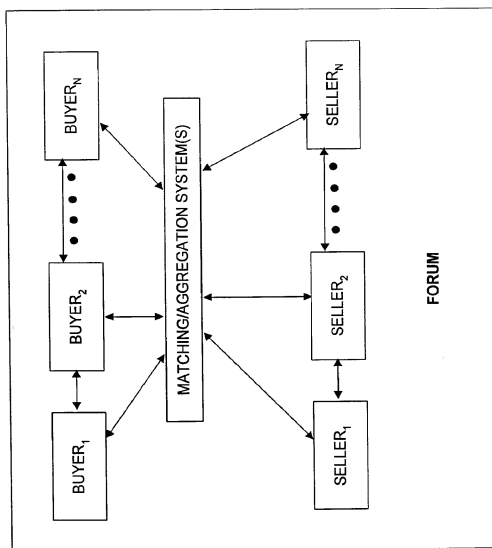
Fig. 13

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Buyer Sponsored Transaction

**Fig. 14**

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Buyer(s)/Seller(s) Sponsored Transaction**Fig. 15**